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## WHAT IS CLAIMED IS:

- 1. A method for processing a rubber composition by a multi-stage mixing procedure comprising at least one non-productive stage and a productive stage:
- (A) wherein said non-productive stage is characterized by mixing a rubber composition at a rubber temperature in a range of from 140°C to 190°C for a mixing time of from 1 to 20 minutes, and said rubber composition comprises
  - (1) 100 parts by weight of at least one sulfur vulcanizable elastomer wherein
    - (a) from 40 to 100 parts by weight of said vulcanizable elastomer is a multi-viscoelastic response rubber; and
    - (b) from zero to 60 parts by weight of said vulcanizable elastomer is a rubber containing olefinic unsaturation other than said multi-viscoelastic rubber;
    - (2) from 0.1 to 25 phr of an organosilicon compound of the formula:

## Z-Alk-S<sub>n</sub>-Alk-Z

in which Z is selected from the group consisting of

where R<sup>1</sup> is an alkyl group of 1 to 4 carbon atoms, cyclohexyl or phenyl; R<sup>2</sup> is alkoxy of 1 to 8 carbon atoms, or cycloalkoxy of 5 to 8 carbon atoms; Alk is a divalent hydrocarbon of 1 to 18 carbon atoms and n is from 2 to 8,

- (3) from 10 to 250 phr of a silica filler; and
- (4) the absence of zinc oxide to form a non-productive compound;
- (B) wherein said productive stage is characterized by mixing at a rubber temperature not to exceed 120°C, and the productive stage compound contains
  - (1) said non-productive compound;
- 35 (2) from 0.5 to 5 phr of a sulfur vulcanizing agent; and

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- (3) from 1 to 8 phr of zinc oxide.
- 2. The method of claim 1 wherein said multi-viscoelectric response rubber is an emulsion styrene-butadiene rubber composition comprised of
- (A) a high molecular weight styrene-butadiene rubber having a weight average molecular weight of at least about 300,000 and
- (B) a low molecular weight styrene-butadiene rubber having a weight average molecular weight which is less than about 280,000;

wherein the ratio of the high molecular weight styrene-butadiene rubber to the low molecular weight styrene-butadiene rubber is within the range of about 80:20 to about 25:75; wherein the styrene-butadiene rubber composition is made by coagulating a blend of a latex of the high molecular weight styrene-butadiene rubber and a latex of the low molecular weight styrene-butadiene rubber.

- 3. The method of claim 1 wherein said multi-viscoelastic response rubber is a styrene-butadiene rubber composition which is comprised of repeat units which are derived from styrene and 1,3-butadiene, wherein the styrene-butadiene rubber composition has a number average molecular weight as determined by thermal field flow fractionation which is within the range of about 50,000 to 150,000 and wherein the styrene-butadiene rubber has a light scattering to refractive index ratio which is within the range of 1.8 to 3.9.
- 4. The method of claim 1 wherein said multi-viscoelastic response rubber is a styrene-butadiene rubber composition which is comprised of repeat units which are derived from styrene and 1,3-butadiene, wherein a plot of log frequency versus storage modulus of the styrene-butadiene rubber composition crosses over a plot of log frequency versus loss modulus of the styrene-butadiene rubber composition at a frequency within the range of 0.001 radians per second to 100 radians per second when conducted at 90°C to 120°C using parallel plate geometry in the dynamic oscillation frequency sweep of the styrene-butadiene rubber.
  - 5. The method of claim 1 wherein the Mooney ML 1+4 viscosity at 100°C

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of the high molecular weight styrene-butadiene rubber ranges from 80 to 160 and the Mooney ML 1+4 viscosity at 100°C for the low molecular weight styrene-butadiene rubber ranges from 2 to 40.

- 5 6. The method of claim 1 wherein said sulfur vulcanizable elastomer containing olefinic unsaturation other than multi-viscoelastic rubber is selected from the group consisting of natural rubber, polyisoprene, butyl rubber, halobutyl rubber, polybutadiene, styrene-butadiene copolymer, styrene/isoprene/butadiene rubber, methyl methacrylate-butadiene copolymer, isoprene-styrene copolymer, methyl methacrylate-isoprene copolymer, acrylonitrile-isoprene copolymer, acrylonitrile-butadiene copolymer, silicon-coupled star-branched polymers, tin-coupled rubbers, star-branched polymers, siloxy-terminated elastomers and mixtures thereof.
  - 7. A sulfur vulcanizable rubber composition which is prepared by the method of claim 1.
  - 8. A sulfur vulcanizable rubber composition which is prepared by the method of claim 2.
  - 9. A sulfur vulcanizable rubber composition which is prepared by the method of claim 3.
    - 10. A sulfur vulcanizable rubber composition which is prepared by the method of claim 4.
    - 11. A sulfur vulcanizable rubber composition which is prepared by the method of claim 5.
- 12. A sulfur vulcanizable rubber composition which is prepared by the method of claim 6.

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- 13. A sulfur vulcanized rubber composition which is prepared by heating the composition of claim 7 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
- 5 14. The sulfur vulcanized rubber composition of claim 13 in the form of a tire, belt or hose.
  - 15. A sulfur vulcanized rubber composition which is prepared by heating the composition of claim 8 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
    - 16. A sulfur vulcanized rubber composition which is prepared by heating the composition of claim 9 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
    - 17. A sulfur vulcanized rubber composition which is prepared by heating the composition of claim 10 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
- 20 18. A sulfur vulcanized rubber composition which is prepared by heating the composition of claim 11 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
- 19. A sulfur vulcanized rubber composition which is prepared by heating
  25 the composition of claim 12 to a temperature ranging from 140°C to 190°C in the presence of a sulfur vulcanizing agent.
  - 20. A tire having a tread comprised of the composition of claim 14.